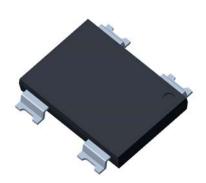
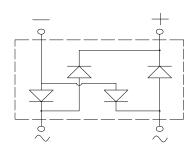






Bridge Rectifiers





Features

- UL recognition, file #E313149
- Glass passivated chip junction
- Ideal for automated placement
- High surge current capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

General purpose use in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

Mechanical Data

• Package: YBS2G

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, Halogen-free

• **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Polarity: As marked on body

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	YBSA40005	YBSA4001	YBSA4002	YBSA4004	YBSA4006	YBSA4008	YBSA4010	
Device marking code			YBSA40005	YBSA4001	YBSA4002	YBSA4004	YBSA4006	YBSA4008	YBSA4010	
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000	
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700	
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000	
Average rectified output current @60Hz sine wave, R-load, Tc=100°C	Ю	Α	4							
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave,1 cycle, Tj=25°C	Ison		120							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	IFSM	Α	240							
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l²t	A ² s	59.8							
Storage temperature	T _{stg}	°C	-55 ~ +150							
Junction temperature	Tj	°C	-55 ~ +150							

YBSA40005 THRU YBSA4010

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

					•					
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YBSA40005	YBSA4001	YBSA4002	YBSA4004	YBSA4006	YBSA4008	YBSA4010
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=2.0A	1.0						
Maximum DC reverse current	IR	μA	T _j =25℃	5						
at rated DC blocking voltage per diode	ır.	μΛ	Tj =125°C	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C							

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

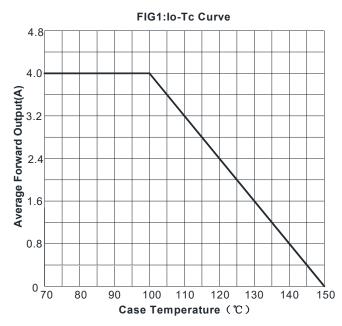
PARAMETER		SYMBOL	UNIT	YBSA40005	YBSA4001	YBSA4002	YBSA4004	YBSA4006	YBSA4008	YBSA4010
	Between Junction and Ambient	R _{0J-A}		55						
Typical Thermal Resistance	Between Junction and Lead	R _{0J-L}	°C/W	10						
	Between Junction and Case	R _{0J-C}					7			

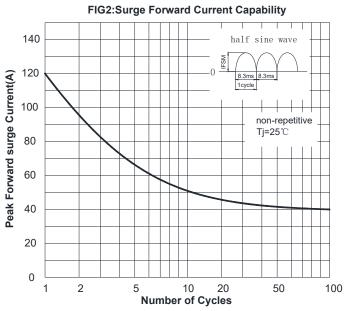
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

■Ordering Information (Example)

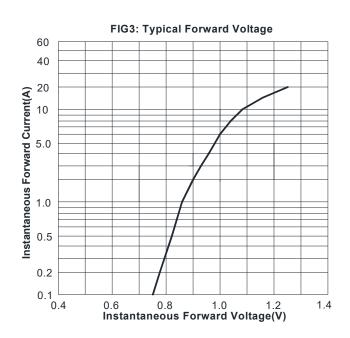
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBSA40005-YBSA4010	F1	Approximate 0.274	2500	1	35000	13" reel

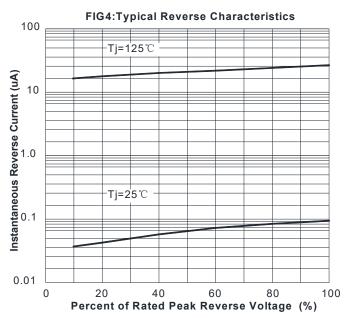
■ Characteristics (Typical)



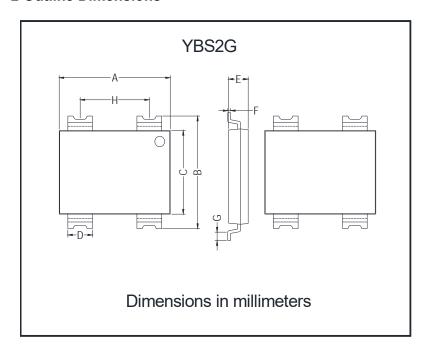


YBSA40005 THRU YBSA4010



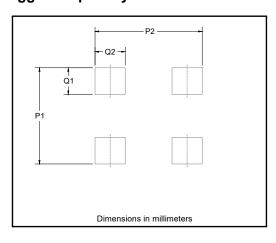


■ Outline Dimensions



YBS2G						
Dim	Min	Max				
Α	8.6	9.2				
В	8.3	8.9				
С	6.2	6.6				
D	1.85	2.15				
E	1.35	1.75				
F	0.1	0.3				
G	0.4	0.8				
Н	5.4	5.8				

■ Suggested pad layout



YBS2G				
Dim	Min			
P1	11			
P2	7.8			
Q1	2.4			
Q2	2.2			

3/4



YBSA40005 THRU YBSA4010

Disclaimer

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